

SUPPLEMENTAL CAPITAL PREVENTIVE MAINTENANCE PROJECT REPORT

To

**Request Programming in the 2012 SHOPP
And
Provide Project Approval**

On Route State Route 39 (Beach Blvd.)

Between Junction of I-5 Bridge Separation #55-161 (PM 15.1)

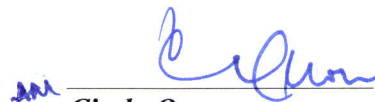
And Imperial Highway (SR-90) (PM 19.2)

APPROVAL RECOMMENDED BY:


Vinh Pham
Project Manager

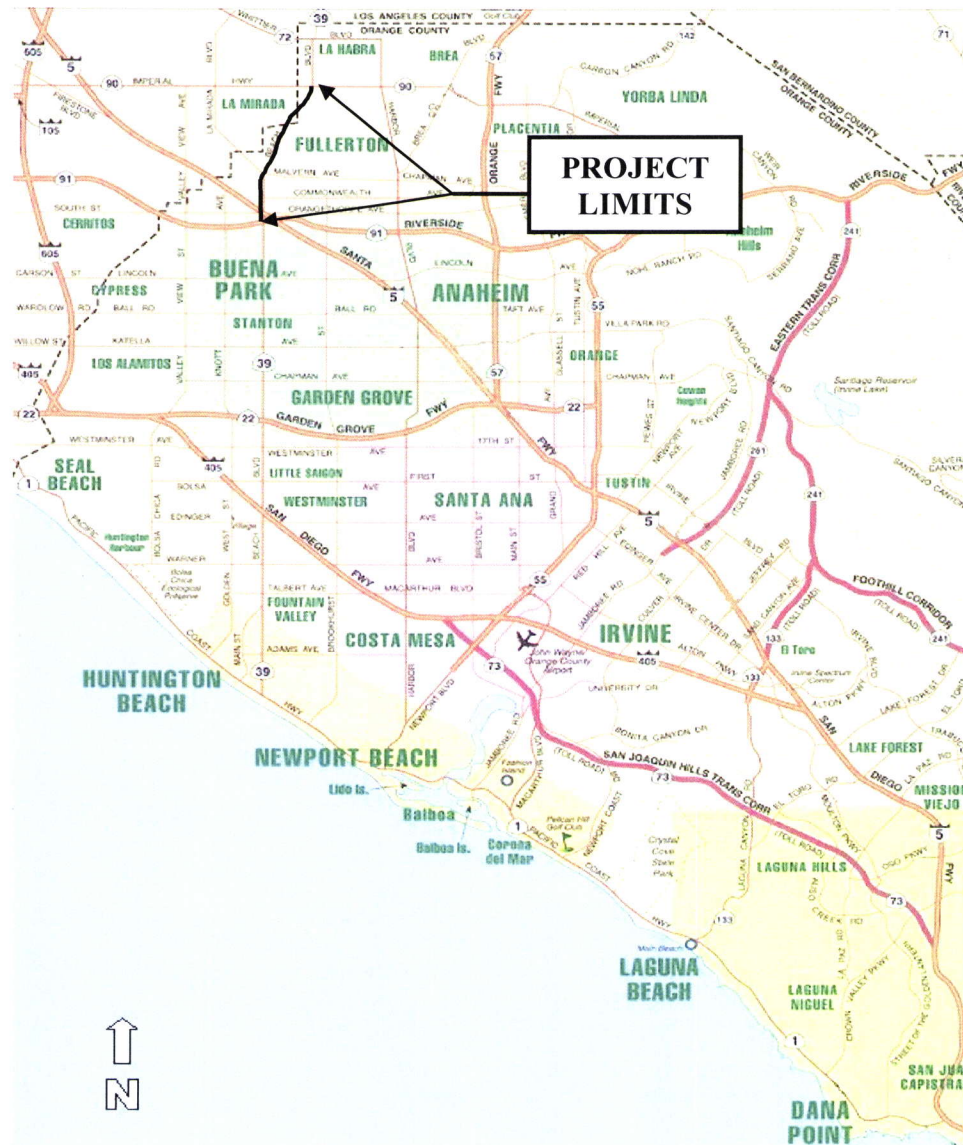
9/7/2011
Date

APPROVED BY:


Cindy Quon
District Director

9/9/11
Date

Vicinity Map



On Route State Route 39 (Beach Blvd.)
Between Junction of I-5 Bridge Separation #55-161 (PM 15.1)
And Imperial Highway (SR-90) (PM 19.2)

This Supplemental Capital Preventive Maintenance Project Report has been prepared under the direction of the following Registered Engineer. The registered Civil Engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Andrew Ngo

Andrew A. Ngo, P.E.
Registered Civil Engineer



09/07/2011
Date

SUPPLEMENTAL CAPITAL PREVENTIVE MAINTENANCE PROJECT REPORT

A Capital Preventive Maintenance Project Report (CAPM PR), EA 0J400K, was approved on January 29, 2008. The project limit was originally from PM 8.8 to 19.2. However, a highway maintenance project (EA 0L6001) scheduled for RTL on March 2012 would have included a segment of SR-39 from PM 8.8 to 12.7. A PSSR is currently being developed to relinquish a portion of SR-39 between PM 12.7 and 15.1 to the City of Buena Park, and is scheduled to be completed by October 2011. This supplemental CAPM PR is being prepared to accommodate changes in the project limits from its original PM limits of 8.8/19.2 to the revised PM limits of 15.1/19.2. This change has therefore resulted in a change to the construction cost and programming funding.

In addition, the item unit cost of capital construction cost estimate has changed in the last four years. Cost modification of building materials nationwide resulted in a decrease in construction costs for capital improvement projects. This report reflects a cost decrease of approximately 68% from the previous CAPM PR cost estimate due to decrease in project limits and nationwide decrease in construction costs for capital improvement projects.

The following Table 1 shows the updated cost for the project:

Table 1. Updated Construction Cost Estimate for Supplemental CAPM-PR

Roadway	Structure	Right of Way	Total Project Cost
\$4,918,000	\$0	\$36,300	\$4,955,000

Table 2. Previous Construction Cost Estimate from CAPM-PR

Roadway	Structure	Right of Way	Total Project Cost
\$15,552,000	\$0	\$36,300	\$15,588,000

This is a candidate project in the 2012 State Highway Operational Protection Program (SHOPP) for funding in the Fiscal Year 2014/2015.

Supplemental CAPM PR Preliminary Cost Estimate:

<u>Structural Section Work</u>	<u>Quantity</u>	<u>Unit cost</u>	<u>Cost</u>
Cold Plane (0.25 ft. depth) Exist AC	219,850 SQYD	\$0.50/ SQYD	\$109,925
RAC-G (0.17 ft. depth)	24,110 TON	\$70/ TON	\$1,687,700
DGAC (0.08 ft. depth)	11,875 TON	\$65/ TON	\$771,875
OGAC (0.17 ft. depth)	1,680 TON	\$65/ TON	\$109,200
Roadway Excavation *	100 CY	\$50/ CY	\$5,000
Raised Median Curb & Gutter-350' long	190 CY	\$600/ CY	\$114,000
Remove raised median (40 sq-ft)	Lump Sum		\$6,000
SUBTOTAL (1)			\$2,803,700
<u>Non-Structural Section Work</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Cost</u>
Traffic Control System	65 days		\$65,000
ADA detectable warning surface	95 EA	\$120/EA	\$11,400
Construction Area Signs	Lump Sum		\$25,000
Portable CMS	3 EA	\$10,000/EA	\$30,000
Lower/Raise valves	30 EA	\$1,000/EA	\$30,000
Lower/Raise Manholes	20 EA	\$1,500/EA	\$30,000
Traffic Stripes & Pavement Markings	Lump Sum		\$25,000
Pavement Markers	Lump Sum		\$170,000
Loop Detectors	290 units	\$400/EA	\$116,000
Preparation WPCP	Lump Sum		\$7,000
Water pollution control	Lump Sum		\$40,000
Add/Upgrade Roadway Signs	Lump Sum		\$100,000
Minor Drainage repairs	Lump Sum		\$50,000
Landscape (Raised Median)	Lump Sum		\$10,000
Maintain Traffic/Detour	Lump Sum		\$100,000
Traffic Management Plan (TMP)	Lump Sum		\$30,000
Public Awareness Campaign	Lump Sum		\$30,000
COZEPP	Lump Sum		\$40,000
Resident Engineer Office	Lump Sum		\$30,000
Local Assistance (Cities and PD)	Lump Sum		\$40,000
SUBTOTAL (2)			\$979,400
SUM OF SUBTOTALS (1) AND (2)			\$3,783,100
20% Contingency			\$756,620
10% Mobilization			\$378,310
PROJECT COST			\$4,918,000
Right of Way Cost			\$36,300
TOTAL PROJECT COST			\$4,955,000

* Roadway Excavation for sidewalk and raised median gap closures – 1.5 ft deep

Recommended By:



MASSOUD TAJIK
Program Advisor
Engineering Maintenance

Date: 9/7/2011



CONSTANTINO STAMATION
Branch Chief
Project Studies Unit

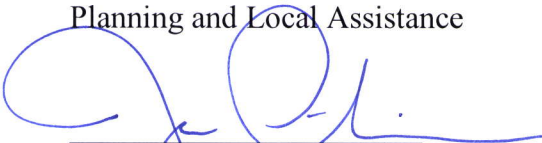
Date: 9/7/2011

CONCURRED:



RYAN CHAMBERLAIN
Deputy District Director
Planning and Local Assistance

Date: 9/8/11



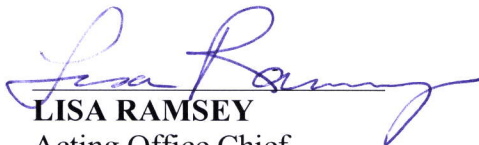
JAMES PINHEIRO
Deputy District Director
Operations and Maintenance

Date: 9/12/11



FRANK LIN
Office Chief
Office of Design

Date: 9/9/2011



LISA RAMSEY
Acting Office Chief
Office of Program/Project Management

Date: 9/8/11